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**20040152177**

## A1

**August 5, 2004**

### Fermentation process

## Abstract

A fermentation medium containing: (a) a source of metabolizable carbon and energy; (b) a source of inorganic nitrogen; (c) a source of phosphate; (d) at least one metal selected from the group consisting of an alkali metal, an alkaline earth metal, a transition metal, and mixtures thereof; and (e) biotin, substantially free of particulate matter and bacteria.

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Series Code: 10

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**U.S. Current Class:**

**435/142; 435/254.22**

**U.S. Class at Publication:**

**435/142; 435/254.22**

### Intern'l Class:

C12P 007/44; C12N 001/18

### ***Government Interests***

0002] This invention was funded, at least in part, under a grant from the Department of Commerce, NIST-ATP Cooperative Agreement Number 70NANB8H4033. The Government may therefore have certain rights in the invention.

## Claims

## Case Creation Option

*Case "10762895US20060619" already exists. Please overwrite it or cancel the operation.*

### The Contents of Case "10762895US20060619"

Qnum	Query	DB Name	Thesaurus	Operator	Plural
Q1	5,618,708.pn.	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q2	polyhydroxy acid	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q3	Q1 and Q2	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q4	Candida tropicalis	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q5	produc\$5	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q6	dicarboxylic acid	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q7	polyol	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q8	glucose or dextrose	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q9	alkane	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q10	Q5 same Q9	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q11	Q6 same Q7	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q12	Q5 same Q11	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q13	Q8 same Q9	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q14	Q4 same Q12	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q15	Q2 same Q11	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q16	Q2 same Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q17	Q6 same Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q18	Q7 same Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q19	Q15 same Q18	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q20	Q9 same Q18	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q21	Q9 and Q18	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q22	Q15 and Q18	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q23	Q2 and Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q24	Q12 and Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q25	Q2 same Q5	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES

Q26	Q12 same Q25	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q27	Q5 same Q6	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q28	Q5 same Q7	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q29	Q4 same Q28	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q30	Q4 same Q27	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q31	Q4 same Q25	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q32	Q8 same Q29	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q33	Q8 same Q30	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q34	Q9 same Q30	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q35	Q9 same Q29	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q36	Q9 and Q29	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q37	Q32 and Q33	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q38	Q32 and Q34	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q39	Q33 and Q34	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q40	phosphate near5 ((metal) near5 (alkali or (alkaline earth) or transition))	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q41	(ammonium near5 (sulphate or sulfate))	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q42	(calcium or magnesium) near5 (EDTA or (chelating agent))	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q43	trace metal	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q44	(anti foam) or dowex\$	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q45	Q44 same Q40	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q46	Q41 same Q45	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q47	Q42 same Q46	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q48	Q42 and Q46	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q49	Q43 and Q46	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q50	Q40 and Q44	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q51	Q41 and Q50	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q52	Q42 and Q51	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q53	Q43 and Q51	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q54	Q46 and Q53	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q55	Q46 and Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES

Q56	Q53 and Q4	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q57	calcium	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q58	magnesium	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q59	potassium	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q60	trace metal	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q61	alkali metal	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q62	(alkaline near5 earth) near5 metal	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q63	transition near5 metal	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q64	edta or sequestering agent	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q65	edta or chelating agent	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q66	edta or (chelating agent)	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q67	edta or (sequestering agent)	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q68	dowex\$6	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q69	Q68 and Q41	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q70	Q8 and Q69	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q71	Q67 and Q70	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q72	Q71 and Q66	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q73	Q67 and Q72	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q74	Q63 and Q73	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q75	Q62 and Q74	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q76	Q61 and Q75	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q77	Q60 and Q76	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q78	Q59 and Q76	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q79	Q58 and Q78	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q80	Q57 and Q79	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q81	Q53 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q82	Q51 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q83	Q50 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q84	Q45 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q85	Q4 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q86	Q6 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q87	Q7 and Q80	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES

Q88	Q8 and Q9	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q89	Q4 and Q88	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q90	Q89 and Q41	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q91	Q90 and Q57	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q92	Q58 and Q91	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q93	Q59 and Q92	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q94	Q60 and Q93	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q95	Q94 and Q61	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q96	Q62 and Q95	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q97	Q63 and Q96	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q98	edta	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q99	Q97 and Q98	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q100	Q97 and Q68	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q101	antifoam	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q102	Q97 and Q101	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q103	435/142.ccls.	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q104	435/254.22.ccls.	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q105	Q103 and Q104	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES
Q106	Q102 and Q105	PGPB,USPT,USOC,EPAB,JPAB,DWPI	None	ADJ	YES

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